

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** ITP 298

**Credits:** 4

**Course Title:** Seminar and Project in Information Technology Programming:  
Programming Capstone

**Course Description:** Provides students with hands-on experience developing sophisticated web-based applications using ASP.NET and SQL Server, including profiles, personalization, web parts, themes, multi-lingual, and web services. Students will work in small teams to build a semester-long project. Prerequisites: ITP 136, ITP 236, ITP 245, ITP 251, ITD-130, ITD-132, or school approval. Lecture 4 hours per week.

**General Course Purpose:** Serves as the capstone course requirement for students in the Computer Programmer Career Studies Certificate in the Information Systems Technology program.

**Course Prerequisites and Co-requisites:**

Prerequisites: ITP-136, ITP 236, ITP 245, ITP 251, ITD-130, and ITD-132 or school approval

**Student Learning Outcomes:**

Upon completing the course, students will be able to

- a. Build 3-tier web applications;
- b. Expand their use of the .NET framework to build web applications using MVC or Windows applications using WFP;
- c. Build dynamic database-driven applications;
- d. Use login, profiles, and personalization in a web application; and
- e. Integrate combinations of Bootstrap, JavaScript, JQuery, and style sheets throughout the application for rich user experiences.

**Major Topics to Be Included:**

- a. Project management
- b. Database design
- c. Application planning
- d. Technology research
- e. Soft skills for presenting ideas

**Date Created/Updated (Month, Day, and Year):** October 18, 2018